

## **GC/MS (Gas Chromatography - Mass Spectrometer) (Head Space)**

Gas chromatography-mass spectrometry; is a type of matching analyses method of gas chromatography and mass spectrometry. The analyte in the gas phase or passed to the gas phase; is first ionized and separated by mass / charge ratios after it has first been separated into its components by boiling point or volatility in the gas chromatographic column.

### **GC / MS Application Areas:**

- Volatile or semi-volatile substances
- Food samples
- Oil samples
- Oil / petroleum derived materials
- Drugs and drugs
- Cosmetics
- Doping materials

**Instrument Name:** Agilent 5977A Series GC / MSD, CTC Head Space

- Gas chromatograph Agilent 7890B
- Oven Temperature: +4 - 450°C
- EI source: Standard Inert / high sensitivity Extractor
- CI source: PCI, NCI, and EI acquisition
- Ion Source Temperature: 150-350 ° C
- Quadrupole Temperature: 106-200 ° C
- Mass Filter: Monolithic Hyperbolic Quadrupole
- Mass Range: 1.6-1050 u
- Mass axis stability: 0.10 u / 48 h
- Detector: Triple-Axis Detector GC / MSD

MassHunter Acquisition with MassHunter, Classic ChemStation Data Analysis Software.